BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 1000000.00

me of Work: Detailed Estimate for the work of Improvements to stage plat form and struction of Roof struss covering at GPS school in ward No-04.

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)	cum							
for flatform		1	20.00	8.50	0.15	25.50		
for culvert		1	8.00	1.50	1.00	12.00		
for coulms		2	0.75	0.75	0.90	1.01		
for OLF		1	15.00	0.75	0.80	9.00		
for erecting MS pipe		6	0.75	0.75	0.80	2.70		
						50.21	200.34	10060.00
Basic Rate	189.00							
Area Weightage @ 6%	11.34							
Total	200.34							
KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 134 (SR 2016-17)	cum							
		Vide Item No. 1				50.21	85.65	4301.00
Basic Rate for loading and unloading	68.00							
Basic Rate for Haulage upto 4.00 k.m =1.28 X 2.50 X 4	12.80							
	80.80							
Area Weightage @ 6%	4.85							
Total	85.65							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
KSRB-4.1.2 Providing and laying in position plain cement concrete of mix 1:2:4 withOPC cement at 320kgs with 40mm and down size graded granite metal coarse aggregates @0.692cum and fine aggregates @0.465cum machine mixed concrete laid in layers not exceeding 15cms, thick, well compacted in foundation and plinth, including cost of all materials, labour HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 101 Item No. 4.2/ PWD SR 2016-17	Cum							
Retum		1	20.00	8.50	0.10	17.00		
for culms		2	0.75	0.75	0.10	0.11		
for CLF		1	15.00	0.75	0.15	1.69		
culvert		1	8.00	1.20	0.15	1.44		
for erecting MS pipe		6	0.75	0.75	0.10	0.34		
						20.58	**5348.76**	**110064.00**
Basic Rate	5046.00							
Area Weightage @ 6%	302.76							
Total	**5348.76**							
KSRB 5.2.3 Providing and constructing granite / trap / basalt rock stone masonry in foundation with cement mortar 1:6, stone hammer dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications KBS 5.1.13 (Page No. 101 Item No. 5.6)	Sqm							
for CLF		1	15.00	0.60	0.80	7.20		
						7.20	4438.22	**31955.00**
Basic Rate	4187.00							
Area Weightage @ 6%	251.22							
Total	**4438.22**							
Providing and laying /fixing cement base **Precast, pre polished cement concrete designer tiles 25mm thick** conforming to IS 1237 heavy duty tiles for flooring, treds of steps and landing, laid on bed of 12mm thick cement mortal 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting griding the eges to halffull round wherever required. Labour, curing complet as per specification. Page No. 108/ Item No. 14.62 / PWD SR 2016-17	Sqm							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
		1	20.00		8.50	170.00		
						170.00	1150.10	**195517.00**
Basic Rate	1085.00							
Area Weightage @ 6%	65.10							
Total	**1150.10**							
KSHB 15.1.1: Providing **flush** painting to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm ready lining, including cost of materials, labour, curing complete as per specifications.(Page No. 113/Item No. 15.1)	Sqm							
	1x2	2	15.00		0.40	12.00		
						12.00	102.82	**1234.00**
Basic Rate	97.00							
Area Weightage @ 6%	5.82							
Total	**102.82**							
Supplying and fixing **M.S Rectangular** gates made out of 2 equal angles of (50x50x6) mm welded together and fixed in cc1:2:4 with 2 nos16 mm dia M.S Hold fasts rods of each length 25 cms, including cost of all materials, cutting,bending scaffolding where ever necessary, nice finishing the welded joints with all lead and as per the direction of the Engineer in charge of the workand including providing 2 coats of approved quality paint over one coat of shop painting(excluding the cost of earth work and concrete) (Page No. 255/ Item No. 37.2)	Mtrs							
		11			2.50	**27.50**	868.14	**23874.00**
Basic Rate	819.00							
Area Weightage @ 6%	49.14							
Total	**868.14**							
Providing and fixing **M.S Block pipe of** (38 mm dia, of heavy guage of 14 including the removing the bends cutting the pipe and fixing the pipe inbetween the two verticle poles/M.S Rectangular pole and spot welding the chain linking with M.S Blockpipe including cost of all materials,wastage in cutting and scaffolding where ever necessary with all lead and liftas per the direction of the Engineer in charge of the workand including providing 2 coats of approved quality paint over one coat of shop painting (Page No. 255/ Item No. 37.4)	Mtrs							
		2	15.00			30.00		
						30.00	343.44	**10303.00**
Basic Rate	324.00							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Area Weightage @ 6%	19.44							
Total	**343.44**							
Providing **chain link fencing 50** mmsize of 8 guage properly stretched bet ween the rectangular poles and fixed with suitable bolts and nuts ,the free ends shall be welded to the pole and block pipe at top and bottom as required , including cost of all materials, labour lead and lift and as per the direction of the Engineer in charge of the workand including providing 2 coats of approved quality paint over one coat of shop painting (Page No. 255) Item No. 37.3)	sqm							
		1	15.00	2.00		30.00		
						30.00	698.54	**20956.00**
Basic Rate	659.00							
Area Weightage @ 6%	39.54							
Total	**698.54**							
KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.88cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1.4.6, No. KBS 4.1.4.6, No. 13/ Item No. 4.13 PWD SR 2016-17	**Cum**							
for flatform surface		1	20.00	8.50	0.075	12.75		
for erecting MS pipe		6	0.75	0.75	0.900	3.04		
for culvert		1	8.00	1.20	0.23	2.21		
		2	8.00	0.23	0.70	2.58		
deck		1	8.00	1.20	0.23	2.21		
						22.78	**6371.66**	**145143.00**
Basic Rate	6011.00							
Area Weightage @ 6%	360.66							
Total	**6371.66**							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
KSRB 4.9.2:providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2016-17	Quintal							
for RCC concrete 60kg/cum		0.600	3.04			1.82		
for RCC culvert 90kg/cum		0.900	6.99			6.29		
						8.12	5605.00	45486.00
Basic Rate	5605.00							
KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, buttresses,buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2016-17	sqm							
for rcc culvert	1x4	4	8.00		0.70	22.40		
		1	8.00	0.6		4.80		
						27.20	310.58	8448.00
Basic Rate	293.00							
Area Weightage @ 6%	17.58							
Total	310.58							
KSRRB 800-1: **painting two coats after filling the surface** with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specification MORTH chapter 8, No. 182/ Item No. 24.1/ PWD SR 2016-17	sqm							
cpf		2	15.00		2.50	75.00		
						75.00	63.60	4770.00
Basic Rate	60.00							
Area Weightage @ 6%	3.60							
Total	63.60							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
KSRRB M300-53: construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 155/ Item No. 19.60/ PWD SR 2016-17	cum							
for flatform		1	20.00	7.00	0.15	21.00		
						21.00	**320.12**	**6722.52**
Basic Rate	302.00							
Area Weightage @ 6%	18.12							
Total	**320.12**							
Providing and fixing M.S Gate as per chief architect drawing using 50mm x 50mm 14 gauge M.S hollow pipe frame work bent to ornamental shape as shown in the drawinf and 35mm x 6mm and 16mm x16 mm squre rods for verticle alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S flats for horizontal member and at the top cast iron spikes are provided at alternate verticle members as shown in the drawingetc., complete all the steel surface shold be thoroughly cleaned free of dust and painted with anti corrosive paint (shop paint) etc. complete the work includes cost of all materil labour charges for all items of work, hire charges for welding, cutting and grindingequipment and electrically charges with lead and lift, loading and unloading charges complete as per specification(SP 42843 / I.N 7.37)	Sqm							
		1	5.00		2.50	12.50		
						12.50	3238.30	**40479.00**
Basic Rate	3055.00							
Area Weightage @ 6%	183.30							
Total	**3238.30**							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
Fabricating supplying and erecting M.S. TrulerTruss of span upto 10m bottom and top member is provided with 50x50x6mm double equale angles, welded back to back and in between top and bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided all the members are weldeded loghter with 6mm gusset plate as per drawing. The enter truss is anchored in RCC column buy using 4Nos of M.S anchor bolts at eacth support, with 10mm thick base plate and shoe plate. The work includes cutting, straightening , pacing in position of M.S angle and welding wherever necessary, and applying one of red oxide primer coat to all the members including cost of all materials, labour charges,and higher charges of mechineries for cutting welding, granding and erection equipments, with all lead and lift, transportation, etc, complete as per specification. Page No. 45/ I No. 7.29/ PWD SR 2016-17	Kgs							
Angel truss = 6Nos x 4.50mtrs x 25kgs/mtr = 675kgs						675.00		
MS Rectangular tubes (perlins) 28 x 9.20 x 35 kgs/mtrs=644 kgs						644.00		
MS Pipe 150mm dia 14 gauge = 6Nos x 150kg (20 ft pipe = 150kgs) = 900kgs						900.00		
						2219.00	116.60	**258735.00**
Basic Rate	110.00							
Area Weightage @ 6%	6.60							
Total	**116.60**							
PROVIDING TRAPEZOIDAL PROFILED SHEET Providing and installing of pre painted Galvolume iron Trapezoidal profiled sheet of approved make 1060mm width (1000mm cover width), 28-30 mm crest height with cest distance of 200 mm c/c with 2ribs at the center for stiffening . The total coated thickness (TCT) of the sheet will be 0.47 mm +/- 0.02 mm tolerance Zinc Alu Alloy coating AZ 150 gsm as pe ASTM 1397/A755-550 mpa steel grade. 5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling /self tapping screws of 25mm length,to be fixed over the existing purlins, rafters channel and trusses. No. 300/ Item No. 38.30 PWD SR 2016-17	sqm							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
GI Sheet (0.5mm)		2	9.00	5.50		99.00		
						99.00	816.20	80804.00
Basic Rate	770.00							
Area Weightage @ 6%	46.20							
Total	816.20							
Miscellaneous charges								1148.00
							Total	1000000.00

(Rupees Ten Lakhs Only)

CERTIFICATE

The work spot has been inspected and the work is found necessary.
This estimate is prepared as per C.S.R. of 2016-17
The provisions were made in this estimate are necessary and adequate.
This works come under B.B.M.P. limits.

Assistant Engineer

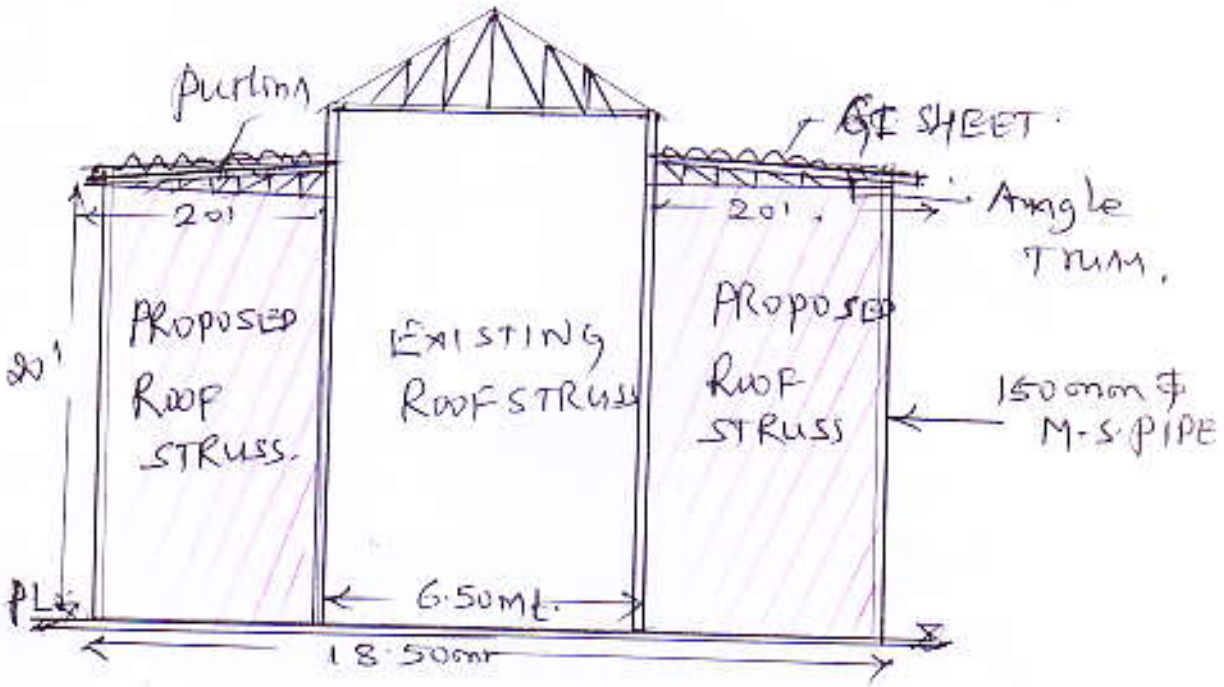
Assistant Executive Engineer
Yelahanka satellitetown Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Administrative Sanction for Rs. 10.00 Lacs
Ten Lacks only
is accorded under head P.17771 -
2016-17
Reg... to ... No. EE/AE/61/16-17 dt. 16.2.17

TECHNICALLY SANCTIONED FOR Rs. 10.00 Lacs
Rupees Ten Lacks only
P.17771-16-17
EE/BS/96/16-17 dated 16.2.17 10.00 Lacs

NAME OF WORK:- IMPROVEMENTS TO STAGE PLAT FORM & CONSTRUCTION OF ROOF STRUSS COVERING @ GPS SCHOOL IN WANOY



ELEVATION.

PLAN.

INDEX:

Proposed M.S-pipe

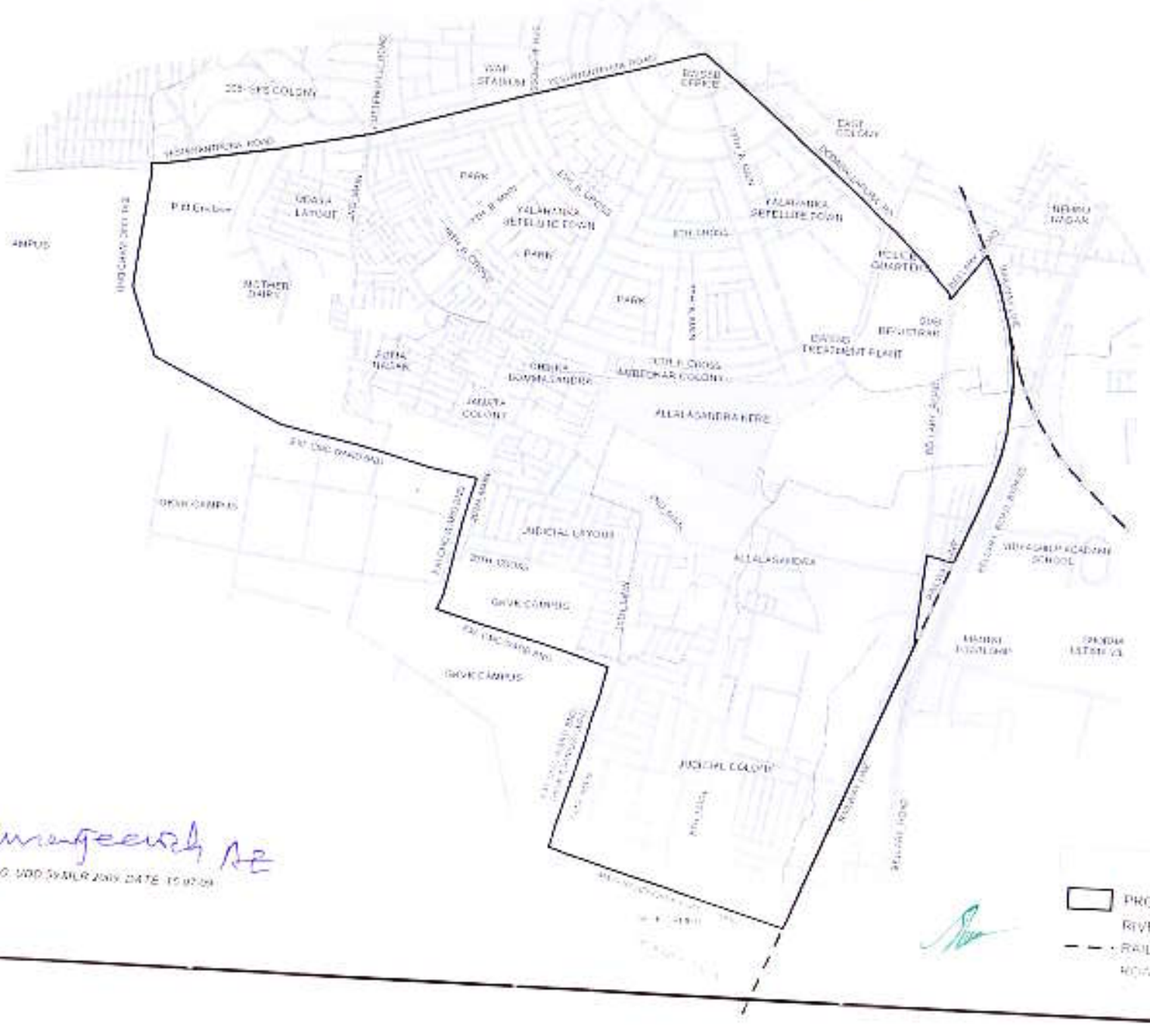
Ramanagouda A.E.

A.E.

A.E.E.

BRUHAT BANGALORE MAHANAGAR PALIKE
WARD: 4 - YELHANKA SATELLITE TOWN

190 - YELAHANKA AC



NOTIFICATION NO. UDD 5 MLR 2009, DATE: 15.07.09